

APPROVED	O	FIG.
BY	CLAS	SUBCLASS
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2005 T0 " TACGCGGTT

Figure 1A

ATGTCGAAAA	TTGAACCTAA	ACAACTATACT	TTTGCCCTATG	ATAATCAAGA	AGTATTGCTT	60
TTTGATCAGG	CAAATATCAC	GATGGATAACC	AATTGGAAT	TAGGATTGAT	TGGCCGCAAT	120
GGCCGGGGAA	AAACAAACCTT	ATTAAGATTG	TTACAAAAAC	AGTTGGATTA	CCAAGGAGAG	180
ATTCTTCATC	AAGTCGATT	CGTCTTATT	CCACAAACAG	TTGCAGAAAGA	ACAACAGCTC	240
ACTTATTATG	TCTTACAAGA	GGTGAACTTCT	TTTGAACAGT	GGGAATTAGA	ACGAGAATTAA	300
ACGCTTTAA	ACGTTGATCC	TGAAGTTTA	TGGCGGCCCT	TTCTCTCTT	ATCAGGGGCC	360
GAAAGACGA	AAGTTTATT	AGGTCTTAGCT	TTTATTGAAG	AAAATGCCCT	TCCTTAATT	420
GACGGCCAA	CAAATCATT	AGATCTTAGCT	GGCAGACAAC	AAAGTGGCTGA	ATATTGAAAG	480
AAAAGAAC	ACGGGTTTAT	TTTAGTCAGC	CACGATCGGG	CATTGTTGA	TGAAGTGGTT	540
GATCATATT	TGGCGATTGA	AAAAGTCAA	TTGACGGCTGT	ATCAAGGGAA	TTTTTCTATT	600
TATGAAGAGC	AAAAAAATT	AAGAGATGCT	TTTGAACTAG	CAGAAAATGA	AAAATCAAA	660
AAAGAAGTCA	ATCGCTTGAA	AGAAACCGCT	CGTAAAAAAG	CGGAATGGTC	GATGAACCGT	720
GAAGGGATA	AGTACGGCAA	CGCTAAGGAA	AAAGGGAGCG	GGGGGATTTT	TGATACAGGA	780
GCCATTGGTG	CCGGGCAGC	GGCGTAAATG	AAGCGCTCGA	AACACATTCA	ACAACGGGCC	840
GAAACACAAT	TAGCAGAAA	AGAAAAACTA	TTAAAAGATC	TGAGGTATAT	TGATCCTTTG	900
TCAATGGATT	ATCAGCCAAC	GCATCACAAA	ACATTATTGA	CGGTGGAAGA	GCTTCGTCTA	960

APPROVED BY	O. FIG.
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Figure 1B

GGCTACGAGA AAAATTGGCT ATTTGGCCA CTTTCTTTTT CAATAAACGC GGGAGAAATT 1020
GTTGGAATAA CAGGGAAAAA TGGCTCAGGA AAATCGAGCT TAATTCAAGTA TTTATTGGAT 1080
AATTCTCTG GGGATTCAAGA AGGGAAAGCC ACTTTGGCTC ACCAATTAAAC CATTCTTAT 1140
GTGCGCCAAG ATTATGAAGA CAATCAAGGA ACTTTATCCG AATTGGCAGA GAAAATCAG 1200
TTAGATTACA CTCAAATTAACTTA CGAAAACCTTG GGATGGAGCG CGCCGTTTC 1260
ACTAATCGAA TTGAAACAAAT GAGTATGGGG CAACGGAAAA AAGTCAAGT AGCCAAATCA 1320
TTGTCTCAAT CAGCTGAACT TTATATTGG GATGAAACCCC TTAATTACTT GGATGTATT 1380
ATCATCAAC AATTAGAAGC GCTAATCTTA TCTGTGAAGC CTGCAATGCT AGTGATTGAG 1440
CATGATGCAC ATTTCATGAA GAAAATAACA GATAAAAAA TTGTCTTGAA ATCATAA ATCATAA 1497

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20060101-155000

Figure 2A

MetSerLysIleGluLeuLysGlnLeuSerPheAlaTyrAspAsnGlnGluValLeuLeu	20
PheAspGlnAlaAsnIleThrMetAspThrAsnTrpLysLeuGlyLeuIleGlyArgAsn	40
<u>GlyArgGlyLysThrThrIleLeuArgLeuGlnLysGlnLeuAspTyrGlnGlyGlu</u>	60
IleLeuHisGlnValAspPheValTyrPheProGlnThrValAlaGluGluGlnGlnLeu	80
ThrTyrTyrValLeuGlnGluValThrSerPheGluGlnTrpGluLeuArgGluLeu	100
ThrLeuAsnValAspProGluValLeuTrpArgProPheSerSerLeuSerGlyGly	120
<u>GluLysThrLysValLeuGlyLeuLeuPheIleGluGluAsnAlaPheProLeuIle</u>	140
<u>AspGluProThrAsnHisIleLeuAspLeuAlaGlyArgGlnGlnValAlaGluTyrIleUlys</u>	160
LysLysLysGlyPheIleLeuValSerHisAspArgAlaPheValAspGluValVal	180
AspHisIleLeuAlaIleGluLysSerGlnLeuThrLeuTyrGlnGlyAsnPheSerIle	200
TyrGluGluGlnLysLysLeuArgAspAlaPheGluLeuAlaGluAsnGluLysIleLys	220
LysGluValAsnArgLeuLysGluThrAlaArgLysLysAlaGluTrpSerMetAsnArg	240
GluGlyAspLysTyrGlyAsnAlaLysGluLysGlySerGlyAlaIlePheAspThrGly	260
AlaIleGlyAlaArgAlaArgValMetLysArgSerLysHisIleGlnGlnArgAla	280
GlutThrGlnLeuAlaGluLysGluLysLeuLeuLysAspLeuGluTyrIleAspProLeu	300
SerMetAspTyrGlnProThrHisHisLysThrLeuLeuThrValGluGluLeuArgLeu	320

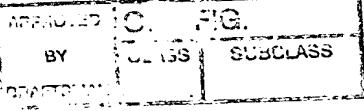


Figure 2B

GlyTyrGluLysAsnTrpLeuPheAlaProLeuSerPheSerThrLeuAsnAlaGlyGluIle 340
ValGlyIleThrGlyGlyLysAsnGlySerGlyLysSerSerLeuIleGlnTyrLeuLeuAsp 360
AsnPheSerGlyAspSerGluglyGluAlaThrLeuAlaHisGlnLeuThrIleSerTyr 380
ValArgGlnAspTyrGluAspAsnGlnGlyThrLeuSerGluPheAlaGluLysAsnGln 400
LeuAspTyrThrGlnPheLeuAsnAsnLeuArgLysLeuGlyMetGluArgAlaValPhe 420
ThrAsnArgIleGluGlnMetSerMetGlyGlnArgLysLysValGluValAlaLysSer 440
LeuSerGlnSerAlaGluLeuTyrIleTrpAspGluProLeuAsnTyrLeuAspValPhe 460
AsnHisGlnGlnLeuGluAlaLeuSerValIleLeuSerValIleLeuMetLeuValIleGlu 480
HisAspAlaHisPheMetLysLysAspLysLysIleValLeuLysSer 498

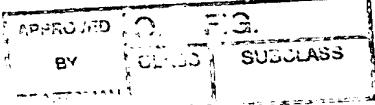


Figure 3A

ATGAAAGAGA	TCGTAACATT	AACAAACGTT	AGCTATGAAG	TAAAGGATCA	AACTGTTTTT	60
AAACATGTA	ACGCCAGTGT	TCAGCAAGGA	GATATCATTG	GGATTATCGG	CAAAAACGGC	120
GCTGGAAAT	CTACGTTGCT	GCACCTCATT	CACAATGACT	TAGCCCCTGC	ACAGGGTCAA	180
ATCCTTCGGA	AGGATATAAA	ACTGGCTTGT	GTTGAACAGG	AAACCCGGC	GTATTCCCTT	240
GCGGATCAGA	CACCTGCCGA	AAAGAAGTTA	CTGGAGAAAT	GGCATGTCGCC	TCTTCGTGAT	300
TTTCATCAGT	TAAGGGCGG	TGAAAACGT	AAAGGGGGC	TGGCGAAAGG	ACTATCAGAG	360
GATGCAGATC	TGCTGCTGTT	AGATGAACCCG	ACAAACCACC	TTGATGAAAA	AAGCTTGCAA	420
TTTCTCATCC	AACAGCTGAA	ACATTATAAC	GGCACTGTGA	TTCTCTTTTC	TCACCATCGA	480
TATTTTAG	ACGAAGCCGC	AACAAAATA	TGGTGGCTTG	AGGATCAGAC	GCTGATTGAA	540
TTCAAAGGA	ATTACTCCGG	GTATATGAAG	TTCCGGGAGA	AGAAAAGACT	CACCCAGCAG	600
CGTGAATATG	AAAAGCAGCA	AAAATGGTT	GAACGGATTG	AAGCACAAAT	GAATGGGCTC	660
GCTTCTGGT	CGGAAAAGC	CCATGCTCAA	TCGACGAAAA	AGGAAGGGTT	TAAAGAATAT	720
CACCGGGTAA	AAGCGAAGCG	TACGGATGCC	CAGATAAAAT	CCAAGCAGAA	GCGGCTTGAA	780
AAAGAGCTTG	AAAAGCAAA	GGGGAACCC	GTTACCCAG	AATATACAGT	CCGCTTTCA	840
ATCGATACAA	CCCACAAAC	AGGAAAACGT	TTTTTAGAAG	TTCAAGAATGT	AACAAAAGCG	900
TTGGAGAAA	GGACTCTCTT	TAAAACGCA	AACTTTACAA	TTCAAGCACGG	CGAAAAGGT	960

APPROVED	CC	FIG.
BY	CL. S	SUBCLASS
DATE: 11/11/01		

FIGURE 3B: FIGURE 3B

Figure 3B

GCGATCATAG	GCCCCAATGG	CAGCGAAAA	ACGACATTAC	TGAACATCAT	TCTGGGACAG	1020
GAAACAGCGAG	AAGGAAGTGT	ATGGGTGTCG	CCGTCGGCAA	ACATCGGCTA	TTAACGGCAG	1080
GAGGTGTTG	ATTGCGCTTT	AGAACAAACA	CCGGAAGAGT	TATTGAGAA	TGAAACATTC	1140
AAAGCAAGGG	GGCACGTTCA	AAATCTGATG	AGGCCACTTAG	GTTTACAGC	CGCCCAATGG	1200
ACTGAACCGA	TCAAGCATAT	GAGTATGGGT	GAGCGTGTAA	AGATCAAAGCT	GATGGCATAT	1260
ATTCTGGAGG	AAAAAGACGT	GCTGATTTTA	GATGAGCCGA	CAAACCATCT	CGACCTGCGCG	1320
TCACGGAAC	AGCTGGAAGA	AACACTGTCA	CAATACAGCG	GCACATTGCT	GGGGGTTCA	1380
CATGACCGAT	ACTTTCTCGA	AAAACAACA	AACAGTAAC	TCGTCAATCTC	AAACAAACGGC	1440
ATCGAAAAAGC	AGTTAACGCA	CGTTCCCTCA	GAAAGAAATG	AGCGGGAGGA	GCTTCGGTTA	1500
AAGCTTGAGA	CAGAAAGACA	AGAAAGTGTG	GGAAAGGCTCA	GTTCATGAC	GCCAAATGAT	1560
AAAGGGTATA	AGGAGCTTGA	TCAGGGCTTTC	AATGAGCTTA	CGAAACGAAT	AAAAGAGCTG	1620
GATCATCAAG	ACAAAAAAGA	<u>CTGA</u>				1644

APPROVED	O. FIG.
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Figure 4A

MetLysGluIleValThrLeuThrAsnValSerTyrGluValLysAspGlnThrValPhe 20
 LysHisValAsnAlaSerValGlnGlyAspIleIleGlyIleIleGlyLysAsnGly 40
AlaGlyLysSerThrLeuLeuHisLeuIleHisAsnAspLeuAlaProAlaGlnGlyGln 60
 IleLeuArgLysAspIleLysLeuAlaLeuValGluGlnGluThrAlaAlaTyrSerPhe 80
 AlaAspGlnThrProAlaGluLysLeuLeuGluLysTrpHisValProLeuArgAsp 100
PheHisGlnLeuSerGlyGlyGluLysLeuLysAlaArgLeuAlaLysGlyLeuSerGlu 120
AspAlaAspLeuLeuAspGluProThrAsnHisLeuAspGluLysSerLeuGln 140
 PheLeuIleGlnIleLeuIleTyrAsnGlyThrValIleLeuValSerHisAspArg 160
TyrPheLeuAspGluAlaAlaThrLysIleTrpSerLeuGluAspGlnThrLeuIleGlu 180
 PheLysGlyAsnTyrSerGlyTyrMetLysPheArgGluLysLysArgLeuThrGlnGln 200
 ArgGluTyrGluLysGlnGlnLysMetValGluArgIleGluAlaGlnMetAsnGlyLeu 220
 AlaSerTrpSerGluLysAlaHisAlaGlnSerThrLysLysGluGlyPheLysGluTyr 240
 HisArgValLysAlaLysArgThrAspAlaGlnIleLysSerLysGlnLysArgLeuGlu 260
 LysGluLeuGluLysAlaLysAlaGluProValThrProGluTyrThrValArgPheSer 280
 IleAspThrThrHisLysThrGlyLysArgPheLeuGluValGlnAsnValThrLysAla 300
 PheGlyGluArgThrLeuPheLysAsnAlaAsnPheThrIleGlnHisGlyGluLysVal 320

Figure 4B

AlaIleIleGlyProAsnGlySerGlyLysSerGlyLysThrLeuLeuAsnIleIleLeuGlyGln 340
GluThrAlaGluGlySerValTrpValSerProSerAlaAsnIleGlyTyrLeuThrGln 360
GluValPheAspLeuProLeuGluGlnThrProGluGluLeuPheGluAsnGluThrPhe 380
LysAlaArgGlyHisValGlnAsnLeuMetArgHisLeuGlyPheThrAlaAlaGlnTrp 400
ThrGluProIleLysHisMetSerMetGlyGluArgValLysIleLysLeuMetAlaTyr 420
IleLeuGluGluLysAspValLeuIleLeuAspGluProThrAsnHisLeuAspLeuPro 440
SerArgGluGlnLeuGluGluThrLeuSerGlnTyrSerGlyThrLeuAlaValSer 460
HisAspArgTyrPheLeuGluLysThrAsnSerLysLeuValTyrSerAsnAsnGly 480
IleGluLysGlnLeuAsnAspValProSerGluArgAsnGluArgGluLeuArgLeu 500
LysLeuGluThrGluArgGlnGluValLeuGlyLysLeuSerPheMetThrProAsnAsp 520
LysGlyTyrLysGluLeuAspGlnAlaPheAsnGluLeuThrLysArgIleLysGluLeu 540
AspHisGlnAspLysLysAsp 547